

ABSTRACT OF THE DISCLOSURE

5 A vacuum low-temperature distilled pure water
dispenser includes a water-supply tank communicating
with a reaction chamber via a water supply line, a pure
water storage tank communicably located above the
reaction chamber, an actuating pump communicably
located below the reaction chamber, and a
refrigerating system having pipe lines extended
10 between the reaction chamber and the pure water storage
tank. When the actuating pump is actuated, a vacuum
is produced in the reaction chamber to suck water in
the water-supply tank into the reaction chamber, at
where the sucked water is heated and vaporized by heat
15 provided by a compressor of the refrigerating system,
so that impurities, organic and inorganic matters,
bacteria, and viruses in the water are separated
therefrom through vacuum low-temperature distillation.
When the actuating pump keeps pumping, the distilled
20 water is sent from the reaction chamber into the pure
water storage tank.